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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,200		01/17/2002	Stephen T. Garelli	MAC - 206	7246
8131	7590	07/26/2005			EXAMINER
		AW, PLLC VILLE ROAD	LUK, EMMANUEL S		
MIDLAND				ART UNIT	PAPER NUMBER
	•		•	1722	
•				DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			!
	Application No.	Applicant(s)	
Office Action Commons	10/051,200	GARELLI, STE	PHEN T.
Office Action Summary	Examiner	Art Unit	
	Emmanuel S. Lul	1=	
The MAILING DATE of this commun Period for Reply	ication appears on the cover	sheet with the correspondence	address
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SiX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum states - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, howe nunication. 0) days, a reply within the statutory min atutory period will apply and will expire swill, by statute, cause the application to	ver, may a reply be timely filed imum of thirty (30) days will be considered tir SIX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).	
Status	•	•	
1) Responsive to communication(s) file	ed on 19 May 2005.		
,	2b)⊠ This action is non-fina	al.	
3) Since this application is in condition	·—		the merits is
closed in accordance with the practi	•	·	
Disposition of Claims			•
4) Claim(s) 8 is/are pending in the appl	lication.		
4a) Of the above claim(s) is/a	re withdrawn from considera	ation.	
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>8</u> is/are rejected.	•		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restrict	tion and/or election requirer	nent.	. •
Application Papers			
9)☐ The specification is objected to by the	e Examiner.		
10) The drawing(s) filed on is/are:	a)☐ accepted or b)☐ obje	ected to by the Examiner.	
Applicant may not request that any object	ction to the drawing(s) be held	in abeyance. See 37 CFR 1.85(a).	•
Replacement drawing sheet(s) including	the correction is required if the	drawing(s) is objected to. See 37	CFR 1.121(d).
11) The oath or declaration is objected to	by the Examiner. Note the	attached Office Action or form	PTO-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim	for foreign priority under 35	U.S.C. § 119(a)-(d) or (f).	
a)□ All b)□ Some * c)□ None of:			•
1. Certified copies of the priority	documents have been recei	ved.	
2. Certified copies of the priority	documents have been recei	ved in Application No	
 Copies of the certified copies of application from the Internation 		ve been received in this Nation	al Stage
* See the attached detailed Office action	•	• • •	
		not not roodivou.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 !	Interview Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (P 3) Information Disclosure Statement(s) (PTO-1449 or		^p aper No(s)/Mail Date Notice of Informal Patent Application (P	°TO-152)
Paper No(s)/Mail Date		Other:	. *

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cole (4541795) in view of Alieri (5786079).
 - (A) an upper mold segment (103);
 - (B) a lower mold segment (107), and
- (C) a moveable core (109) having a top surface, a bottom surface and a centered opening therethrough, said opening having a near end and a distal end; wherein each mold segment has a confronting flat surface, each mold segment being capable of mating with the other mold segment at their respective confronting flat surfaces;

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the opening in the concavity of the lower mold segment running through the lower mold segment and exiting through the bottom surface of the lower mold segment (Fig. 3);

the moveable core having an outside configuration essentially identical to the concavities when the mold segments are mated with each other, the core having internally attached to the bottom thereof, a stem, said stem being slidably mounted in the opening in the concavity of the lower mold segment and extending beyond the bottom surface of the lower mold segment, said stem having centered therethrough, an opening (see Figure 3);

the centered opening in the core having an air valve located in and near the near end thereof said centered opening in the core and said centered opening in the stem being interconnected to allow the intermittent passage of gas therethrough, there being a space created between the outside configuration of the core and the concavities when the mold segments are mated (Col. 8, lines 3-14);

- (II) providing a clamping force on the mold (Fig. 3 and 5);
- (III) injecting liquid moldable material and allowing the liquid moldable material to fill the space created between the outside configuration of the core and the concavities (injection flow via passage 133 to the cavity 10);
- (IV) allowing the liquid moldable material to become a solid molded product (Col. 8, lines 60-62);

(V) removing the clamping force on the mold and separating the upper mold segment and the lower mold segment and thereafter (Col. 8, lines 62-66), moving the core from the lower mold segment (Col. 9, lines 3-6);

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(VI) thereafter, injecting gas into the centered opening in the stem, thereby opening the gas valve in the near end of the centered opening in the core, and allowing the solid molded product to be inflated by the injected gas until the solid molded product is released from the core and thereafter, removing the solid molded product from the mold (Col. 9, lines 29-62). In regards to the concavity, portions of the lower mold segment is concaved (Fig. 6) and the upper mold segment is concaved (Fig. 5). There are concave surfaces and flat segments on the core mold (Fig. 4).

Cole fails to disclose the material being inflated by the gas.

Alieri teaches a cap made between a mold (59) and core (3) where compressed air feeds to the cap to partially space 'the thread C from the portion (9), reducing the resistance of the cap to expulsion during the subsequent descent of the ring (46)' (Col. 6, lines 57-60).

Cole states that the injection of air will aid in the ejection. Depending on the material that is molded, the injection of air might inflate the product on a smaller scale as it is ejected from the core thus Cole is capable of inflating the product. Alieri teaches that the inflation of the product to aid in ejection of the product is known in the art. Cole and Alieri are analogous art as both pertain to injection molding and the use of compressed gas/air for aid in ejection of the product. Thus, it would have been obvious to one of

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ordinary skill in the art to modify Cole with the air being used to inflate the product as taught by Alieri because it aids in reducing the resistance the product may encounter during ejection.

Response to Arguments

4. Applicant's arguments filed 5/19/05 have been fully considered but they are not persuasive. The applicant's arguments have been noted. However, the rejection combination of Cole in view of Alieri fully addresses the matter concerning the injection molding of the product and the subsequent steps in cooling and then ejecting the product, including inflation of the product.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel S. Luk whose telephone number is (571) 272-1134. The examiner can normally be reached on Monday-Thursday 8 to 5 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Davis can be reached on (571) 272-1129. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EL

ROBERT DAVIS
PRIMARY EXAMINER
GROUP_1300 / 200

7/25/08